

Multiscale Autonomous Surveys in Support of SPURS



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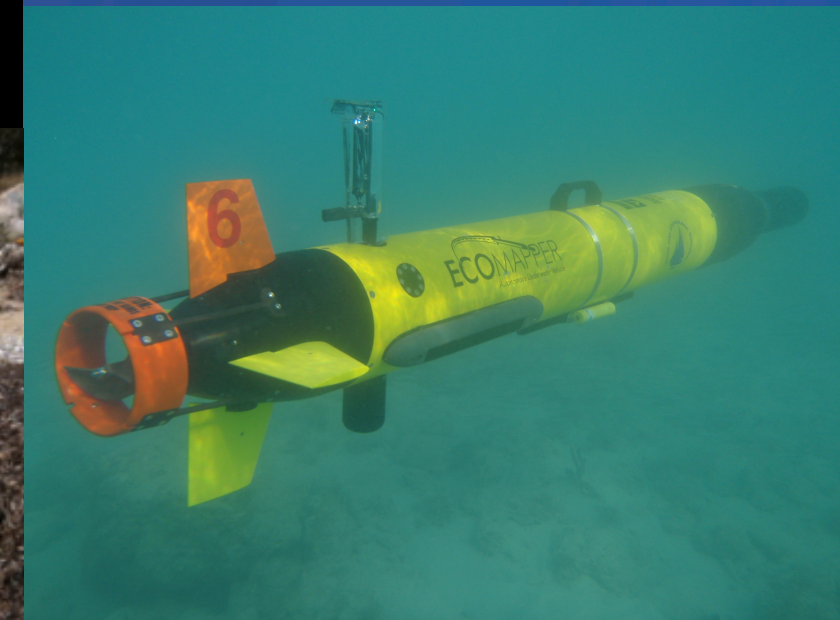
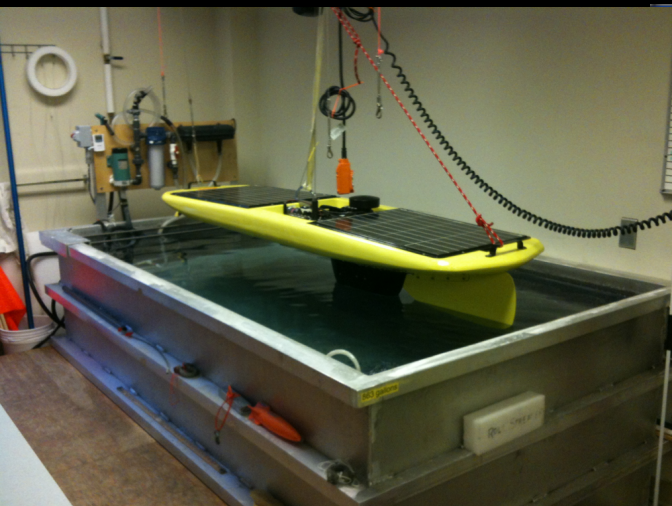
Objectives: To directly measure the detailed spatial structure of upper-ocean salinity, its temporal evolution, and its relationship to larger-scale atmospheric and oceanic forcing.

Methods: Multiscale surveys using autonomous surface and underwater vehicles.

- (a) Environmentally-propelled Wave Gliders (extreme endurance)
- (b) Propeller-driven IVER-2 AUVs (minimal endurance, high speed, high res)

SPURS Contributions:

- (a) Characterization of the upper-ocean salinity field on scales of 10^1 - 10^5 m.
- (b) Measurement of horizontal gradient terms in local and regional budgets.



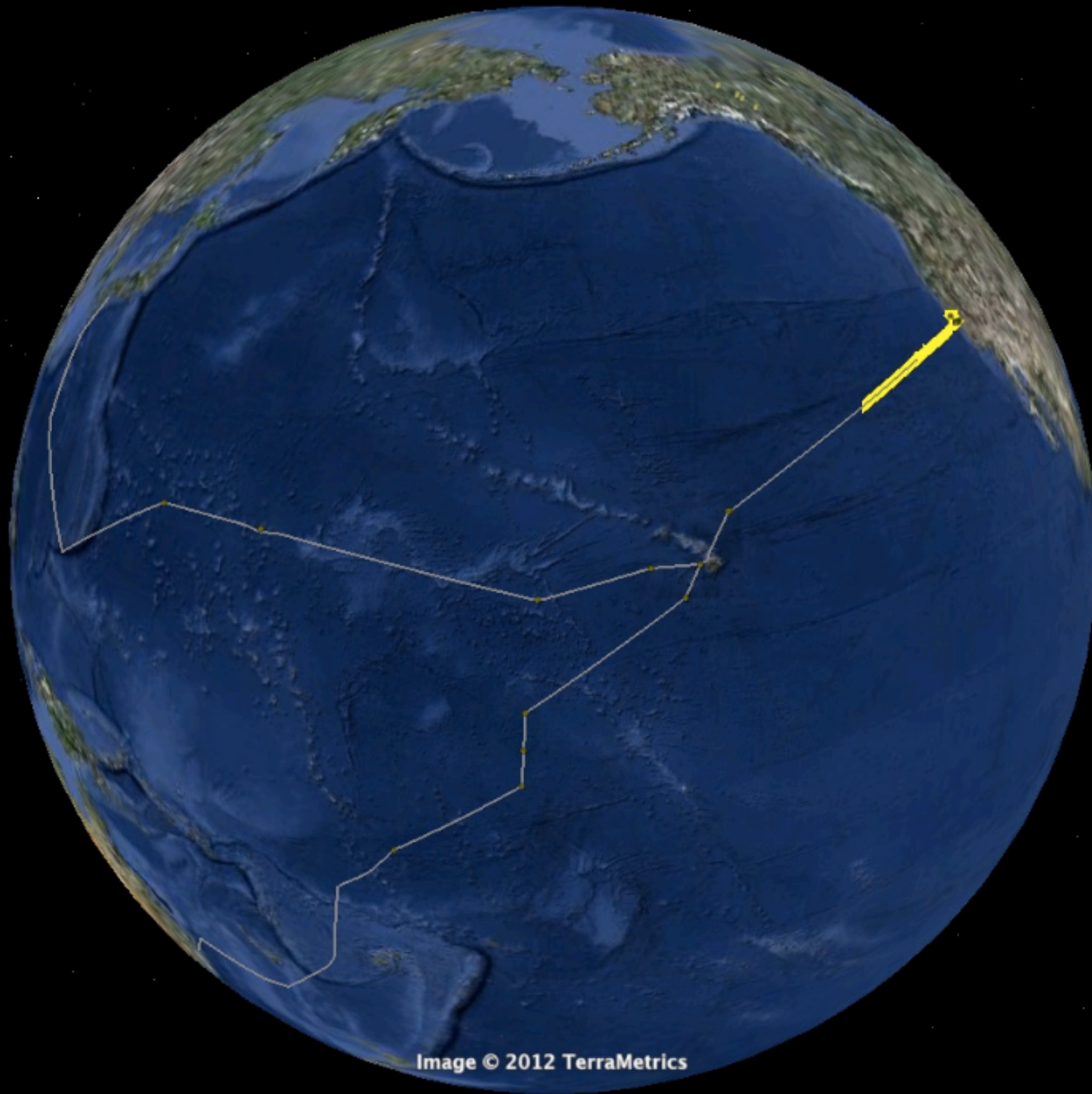


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